

ARGUMENT OF E. L. YOUNG

LETTER OF MR. DELAVAN.  
BALLOON, Saturday, Sept. 1

of nature and science are unchangeable. I believe there never has been a time when the broad diffusion of correct views was so much demanded as in the present crisis of action. Your mode of treating the subject seems to me to open a new route of scientific demonstration to the prohibitory policy; it is just what is required, and I should be greatly obliged and I have no doubt thousands of others would also be glad if you would write it out as early as possible for newspaper and tract publication. Grateful for what you have heretofore done in developing the application of science to this important subject, I remain, my

REPLY OF MR. YOUNG.

Of Alcohol itself, little need be said. Its scientific history has been thoroughly canvassed, and no question is better settled than that of its origin and nature. It comes into existence through the chemical destruction of food, and is that common and active principle of all fermentations, which is the basis of the art of producing intoxication. It is hence both customary and proper to employ the term *Alcohol* when its various mixtures are referred to.

Before considering the way man is affected by this agent, it will be necessary that we direct attention to an important *scientific* fact concerning the nature of his constitution. Before we can understand how a machine is acted upon by any foreign influence, we must first have some what distinct idea of the mechanism itself. In this case it is of extreme importance to know, and may, therefore, be said to be the first ruling principle to certain facts and laws of the human structure.

**OFFICES AN BANK OF DIFFERENT PARTS OF THE STRUCTURE.**

If we ideally take the human system to pieces, we shall at once discover the nature of its leading parts, and see how the framework is designed to support its firmness and strength, and the elastic muscles to throw it into movement. As the production of force involves waste of matter, or decomposition of the parts in section—a gradual process of destruction—the system requires a gradual supply of material to distribute new matter to all parts, and to take up and carry away the products of change which are constantly formed. This requires a digestive system for the preparation of nutriment. A heart is needed to impel and circulate the blood through the body, and the lungs to take up the oxygen being the motive power of animal life. In addition to the foregoing, there is still another part of the fabric, the specific purpose of which is not at first so obvious.

A large portion of the head is occupied by the

I refer to the brain, which is inclosed within the skull. It consists of a large sheet of nervous matter, which is packed with folds and convolutions and contains many hollows and furrows. Anatomists say that, when taken out and soaked, it may be unfolded or distended, so that the convolutions disappear; and that then it has a surface of more than six hundred square inches. The weight of the brain in the adult male ranges usually from forty to fifty ounces, the average being about fifty ounces. The heaviest brain I have seen was in a sixty-four ounce, and the lightest about thirty ounces, although in Idiots and Imbeciles it sometimes falls as low as twenty ounces. The brain, like all other parts of the system, contains innumerable circulatory vessels, and is filled with

blood; but it ciphers from them in this, that it receives a very much larger share of blood than any other equal portion of the organism. Although its average weight is to that of the body, but as one to thirty six it receives, according to different authorities, from one-fifth to one-tenth of all the blood which is sent from the heart. An arterial torrent rushes into it, and a venous stream flows out of it continually. Those decompositions or changes in the blood, therefore, which give rise to force, go forward in this organ with rapidity, so that, whatever may be its use, it is evidently an engine of power.

The brain will now be known to be the center of bodily sensations; the seat of the will; the residence of the intellectual and moral faculties; the seat of the emotions; while the spiritual and material worlds blend and unite. The soft, pulpy sheet, so curiously folded away in the cavity of the skull, and which is kept constantly flooded with bright, arterial blood, is the material structure that God has prepared as the organ of the immortal spirit, during the life-period of its being, dwells, and can only dwell, in the ever-changing cerebral fabric, is an inscrutable mystery. Nevertheless, such is the fact. We know nothing of mind except as bound up with matter in the brain, and in this alliance human action is necessarily bound up with the material organ. Bodily conditions exert a powerful influence over mental feelings, conceptions and states, independent of the will. In fainting, there is a transient suspension of the circulation, and hence a momentary pause in the flow of blood through the brain, and the mind disappears in unconsciousness. Sir Astley Cooper checked the vital current in the arteries that led to the brain of a dog, when the animal fell senseless; as the circulation was restored it revived. Bichat showed that the material structure of the brain is necessary to the due performance of the cerebral functions. If dark colored and venous blood be substituted for it, and transmitted to the brain by the arteries, the animal falls into a state of total insensibility. If, when a portion of the skull is removed, slight pressure be made upon the brain, the animal falls into a faint, and continues until the pressure is removed. A case is recorded where consciousness, which had been extinguished for six months was restored by removing a small portion of the skull which pressed upon the brain. In fever, the blood acquires a disease, and replaces the normal course of thought by the ravings and phantasms of delirium. Unusual rapidity of the flow of blood through the brain, or undue pressure within it as in "determination of blood" or "congestion" disturbs the mind, and the cerebral oxyd gas required, and the material brain as to around the material vehicle of action; while the reporation of carbonic acid gas, even in the small proportion often found in unventilated apartments, depresses and stupefies the mind in spite of the utmost effort of volition. The opinion is now generally entertained by the most eminent medical writers, that derangement of the material vehicle of the material instrument. Dr. Beck, in his medical Jurisprudence, says: "The causes of insanity are usually divided into physical and moral," or "bodily and mental; but a separation of this kind

We gather from these, and numerous other views, a similar nature which I have not space to mention, but that when the mind acts naturally it is because the changes within the brain go on in a normal way, and that a perverted material organ produces a corresponding derangement of mind. A complete correspondence, though, each act of the recollection, or of the reasoning and imaginative and emotional, and of the transformation which is essential to these mental acts, and say agent or force brought to bear upon the brain, which acts or modifies or hinders these material changes, necessarily disturbs and perverts the mental operations. This fact of the essential dependence of mental processes on cerebral mutations we are too much

are alone overlooked. We regard the mind's  
 sense organs, abstracted from all their conditions,  
 separated from the corresponding material set-up  
 which they depend. We have such a habit of con-  
 sidering mind and matter—of considering  
 separate mind and matter—of considering  
 them as two things, that we forget—that we  
 are, in each conception of mental existence,  
 and action from their vital connections. Habituated  
 to conceive of mind in isolation and highest destiny as  
 disconnected from matter, we neglect the inexorable  
 fact that such is not its condition *here and now*. As  
 children, when out at play, are usually reminded  
 that every action of the hand produces a reaction and spring  
 into the air, so the lightning discharges that are  
 continually flying in all directions over the  
 nerve- wires from head-quarters to the hands,  
 feet, tongue, lips, eyes, and the whole mobile  
 and sensitive system, so we are made to re-  
 gret that we cannot think and do and feel  
 and understand and calculate, or exert the mind  
 in any way, we are really supposing the wheel work  
 of most complicated and wonderful of all machines  
 that masterpiece of divine invention, the human brain.  
 I do not affirm that intellectual operations originate  
 or consist in material changes of the brain, but only  
 that, in the present state of our knowledge, it is only  
 in this way that we can trace the material part  
 of such changes necessarily correct. The fact is undeni-  
 able that, in this stage of being, the Creator has so  
 woven the mental element into brain-tissue that the  
 former cannot work except through the latter and in  
 accordance with its laws.

man, for example, moving free in society discharges his duties and regulates all his conduct properly. We at once refer this course of action to his will and say that he *chooses* it. This is true, but it is not the whole truth. Behind the will there is a deeper basis, namely, a sound brain—that is, a brain in such a condition of harmonious and rapid physiological change as makes this course of thought and action possible. In no other instance he may take advantage of his liberty to commit wrong and inflict injury upon others, and we must then say that he *chooses* it, but we cannot say that he *chooses* it, for he cannot choose it.

Let us turn again we must further back to that state of the mind's organ which permitted the freedom of choice, for the liberty of volition depends upon a proper condition of the instrument of thought. If it will prohibit in certain cases the free action and regulate the free action of the voluntary faculties, and drive the insane individual to destructive deeds, for which he is not to be held responsible. In all these cases the vital basis of individual action is the condition of the organ of thought.

Government by means of the law prohibits in certain cases the free action of the citizen, and appeals to certain motives as inducements to it. It promises the protection of natural rights as a consequence of obedience to law, and threatens punishment as the result of its violation. Government makes no appeal to the will, for it is not that it appeals to, but that its foundation is the responsible intelligence of its subject. This is quite true; but we must go deeper. Government is built upon responsible mind, and that in turn depends upon cerebral conditions. Hence states of the material brain became the basis of the law. It is the basis of the law that which holds and sustains the intelligent nature of man in its harmony and integrity.

There is a class of persons who are destitute of brains, or, rather, they have only a part of the organ, first, that is, they have no intellect; they have no ideas, have no intellectual brain; their minds are therefore low and fragmentary, and we call them *idiots*. Now, within the constitution of an idiot there is nothing which government can reach so as to make him its subject. There is no *idiot* upon whom government is based; and therefore, in this case, has no basis. The idiot is simply an animal lacking that organic part which, when asperced, confers intelligence, responsibility, and subjection to law. Or, though he be perfect, if from any cause it becomes disordered, so that the mind can no longer use it, the relation of such person to society is at once dissolved, all moral obligations and legal demands upon him cease, and he passes beyond the line of human responsibility.

These facts disclose the relative rank of different

parts of the human body. Each has its importance; but there is an infinite difference in their respective values. The organs are not equal, and their dependence is not equal. Some are essential to constitute a harmonious unit; but when any one becomes disordered, so as to interrupt or defeat its peculiar action, we behold at once the wide gradation of tactics. If the bones be broken, the body is no longer supported; if the muscles be disordered, respiration becomes effected; or if the stomach, there is disturbed digestion. Yet all this is but a perversion of the subordinate machinery of the human constitution. If disease fastens upon the organs that they do not intend to perform, the lungs are the total wreck of manhood, God and man—religion, government, and all the multifarious relations which cluster around the intelligent being—are blotted out of existence, for we know nothing of these except by rational and coherent ideas, which are impossible if the temple of ideas should be thrown into tumult and disorder. The bodily system of man may thus be considered as an indivisible whole in its subjection to physical laws, but as a totality of organs, each of which is in contact of the purposes it serves. The first consists of the apparatus of animal life, and this is made subservient to another and more sacred part, devoted to nobler objects, and to which apparatus whatever is glorious and noble in man's nature—his intellect, his moral and religious faculties, his private and public responsibilities, in which, therefore, society and government have an especial and peculiar interest—upon which, indeed, they rest as a foundation.

LAW BY WHICH AGENTS ACT UPON DIFFERENT PARTS OF THE CONSTITUTION.

I call attention now to an important physiological law, according to which foreign substances affect the bodily constitution. The first action of the system upon the various nutritive materials which are designed to nourish it, is by means of the digestive pro-

cells, to prepare a uniform homogeneous liquid, which is to circulate through all its parts. This liquid, the blood, contains the elements necessary for the formation of new cells. The nutrition of the body, therefore, consists in taking out of the circulatory current and appropriating those special elements which each tissue requires. There is no one element which demands a special material exchange in its tissue, therefore only withdraws such elements as it needs; other parts of the body taking the rest. Nutrition, therefore, involves a kind of vital analysis of the segregatory fluid, and the consequent appropriation of its material constituents. For example, where the bones are required to grow, compounds of lime are withdrawn from the blood; the muscular tissue select from it compounds containing sulphur, and the nervous tissue those containing phosphorus. The alimentary canal and the part-teats, salivæ, gastric juice and bile, as well as ligaments, tendons, hair, teeth and nails—each separates from the blood at some particular place just those peculiar ingredients which are necessary to form the new cells. The nutritive fluid, or the body's life-blood, is thus the fundamental law by which the living mechanism is perpetuated.

Now, this physiological evidence is not confined to certain substances; it goes far beyond the range of choice of drugs, and extends to all medicines that, to combat disease in various parts of the fabric different medicines are resorted to which will take effect upon the different diseased parts. Medicines swallowed and absorbed into the circulation, or applied externally and inhaled by the tissue, enter the revolving stream of the blood, and are distributed to all parts of the body, and have for them a special attraction. The highest authority in *Materia Medica*, Dr. Pereira, says: "The specific operation of medicines after their absorption on particular organs is well known." Indeed, eminent medical authorities, as Eberle, Duglison and others, have made the action of remedies upon particular parts of the body the basis of their classifications. Thus, one group has a specific action on the intestinal canal; another upon the respiratory organs; and others upon the circulatory, muscular and nervous systems. Then there are subdivisions based upon the mode of action of each part. The action of remedies may be upon the surface, upon the corpus, upon the system, upon the plasma; some thicken and others thin it, and others to assist it is still different ways. To such an extent is this law of localization carried, that not only do medicines select particular organs, but (as Dr. Carpenter observes) their action is often limited to particular spots upon the organs.

It is precisely the same law of local attraction which governs nutriment and medicines controls also the physiological action of poisons. Poisonous agents are drawn by special affinities to particular parts, upon which they produce their morbid, disorganizing or fatal effects. An English writer of high authority in

ology. Dr. Christison, says "Poisons are commonly, but I conceive erroneously, said to affect remotely the general system. A few of them do, indeed, appear to affect a great number of the organs of the body; but, in general, they produce their effects directly, to act on one or more organs only, and not on the general system." Thus for example, arsenic in poisonous doses attacks and inflames the mucous membrane of the alimentary passage, styphnia takes effect upon the lungs, and the same may be said of many of the warts, paralyzing them and producing what is known among painters and whitedrums as *arsenic drop*. The disturbance occasioned by the poisons must be considered upon the fundamental law of the constitution, the tendency of poisons is to seek out and fasten upon particular portions of the organism which first and most directly suffers from their action.

We have seen that the law of the relative value of various parts of man's constitution, and of the law under which they are acted upon by foreign agents, I proposed to examine the manner in which it is affected by alcohol.

Intemperate humors, when drunk, pass into the

nous as a matter of necessity, this being the route of introduction for liquids and solids to the general system. But they do not long remain in this organ, for their presence there would speedily and entirely arrest the digestive process. As the pepsin, which is saved by DuRoi's preparation, the Alcohol, when added to the digestive fluid, produces a white precipitate, so that the fluid is no longer capable of digesting animal or vegetable matter." This precipitant is the coagulation of the pepsin, an essential element in the digestive process. As the distinguished physiologist Todd and Bowman, in their late work, say: "The use of alcoholic stibian salts also retards digestion by coagulating the pepsin, and thereby interfering with its action. Were it not that wine and spirits are rapidly absorbed, the int-estion of food in the stomach is very greatly retarded, and a complete arrest of the digestion of the food, as the pepsin would be precipitated from solution as quickly as it was formed by the stomach." Alcoholic mixtures are, therefore, promptly absorbed; they penetrate the fibres of the stomach, and are quickly launched into the circulation.

The question now is, after Alcohol has passed into the vital stream, and thus acts free course through the nervous system, what then becomes of it? Under the influence of the great physical forces of the universe it may have a tendency to be "driven to the right" or "driven to the left," but the great determining factor in the life of the organism is first and chiefly attracted? It is the nervous system, and especially its great controlling organ, the brain, that is singled out and becomes the chief focus of its ravages. This is a truth acknowledged and beyond dispute. For what a number of renowned physicians and philosophers, when they turn their eyes to the subject, have said, "The mind has a tendency to fly to the head," as we are witness by the prompt mental disturbance which they produce, the disector shows that the organ of mind is the rallying-point of palpable disorganization and disease, and the ablest apologetes of Alcohol also have the consistent testimony to the fact that the organ of mind is the seat of the disease. The great philosopher, who has attempted a scientific defense of Alcohol, recognizes fully its great affinity relationship to the nervous system, "by its close affinity and the selective eagerness with which it acts on that tissue."

In a controversy which you had some years since with Dr. Hun of Albany upon the question of stomach disease, I have been your adversary for some time, and it is on the nervous system that its most terrible effects are produced. That Alcohol has been extracted from the matter of the brain after death by intoxication, is a well-established fact; and repeated instances of the recovery of the faculties (voices) of the brain after death, and the recovery of the faculties of that organ in sufficient strength to be set on fire and burn with its characteristic blue flame. Alcohol has been obtained from the brain several days after the victim's death, and it has been found in the cerebral substance when it could not be detected either in the veins or the arteries of the brain, or in the whole body.

It is, therefore, a question of the brain, and the human brain can be directly or satisfactorily destroyed, from the nature of things, rare and accidental. For the thorough and accurate exploration of the subject, therefore, resort has been had, as in the elucidation of many other important physiological problems, to the microscope.

It is noted by Dr. Percy of Edinburgh for a course

experimental inquiries of this kind which completely settle the question and verify the conclusions drawn from observations upon the brain of man. He destroyed the animals by injecting arsenic into the blood vessels, then subjected to analysis the brains and other parts to detect the presence and proportion of the poison. The result of his investigation was not only that Alcohol was drawn to the brain by special assimilation, but that it was also drawn to the other parts of the body, but that it was drawn to the vessels of the organs.

He says: "Although I have subjected to analysis a much greater quantity of blood than can possibly be present within the cranium, yet I have in general found it to contain more Alcohol than the blood drawn from the brain than from all the quantity of blood. He hence infers the existence of an 'affinity between Alcohol and the cerebral matter.'"

Alcohol

an agent of such active and powerful qualities that cannot be diffused through the cerebral tissue without giving rise to profound disturbances. I have stated that the brain is a laboratory of the most rapid vital changes, upon which its functions exercise dependent influences. The cerebral tissue is a very sensitive nature of Alcohol cannot enter the theory of these transformations without producing active interference. We know that the direct action of Alcohol upon the issues that are discussed in this paper is that when Alcohol enters the brain, this must be its kind of effect, whatever may be its degree. If its eager attraction for oxygen and its extreme inflammability, ranging in this respect high above all normal elements, it produces an unusual intensity of action, and when combined with the excitement, exhilaration and increased action throughout the system, by robbing the arterial blood of its oxygen, it changes it prematurely to the venous condition, and

the unnatural retention of carbonic acid within the body. Thus, by the direct action of Alcohol disseminated through the substance of the brain, and by the altered condition of the blood which it induces, disease of the brain is produced. In the case of the patient above mentioned, that upon *post mortem* examination of the body of inebriate the brain exhibits conspicuous traces of the deleterious agent in the shape of enlargement of the vessels and thickening of their coats, watery degeneration of the brain substance, and the presence of intermenstrual softening and pulpy disorganization of the cerebral texture, with various other morbid appearances. In one case where death was suddenly produced by an excessive quantity of rum, the brain was found in a state of extreme congestion, and loaded with blood, although the stomach was natural.

THE DISORGANIZER OF THE MIND'S ORGAN IS ALSO A

**DISORGANIZER OF THE MIND ITSELF.**  
Physiologists are agreed that different parts of the brain are devoted to different uses. The first effect of alcohol is upon its higher and frontal portion, which is the seat of the intellectual and moral faculties. This part of the brain is excited by a small quantity of alcohol, and the result is a temporary increase of energy, which is very deceptive, and the higher and more deeply perverted, and the hinder and lower portion of the organ, which controls the nerves of motion, is attacked, and the individual loses the faculty of perfectly governing or regulating the bodily movements. The result is a great loss of the power of action, so that part which is devoted to the higher sentiment seems utterly suspended; the power of voluntary motion is lost, and the poison passes downward to excite the lower portion of the organ, which is connected with the respiratory process. The breathing is thus interfered with, and becomes heavy and labored, as we see in lead-drunkness. When death occurs in these cases, it is because this part of the brain becomes so deeply excited that it may remain in a state of inflammation. Now Alcohol is not diffused uniformly through the brain, but takes effect successively upon its several parts.

again, it must of course act in the faculty upon the mind itself. The first effect through the brain upon the mind is to stimulate or excite it to increased action; and this effect is far from being a general and equal invigoration or uniform strengthening of all the mental powers. It is on the contrary a partial and unequal invigoration of the subversives of the harmony. Alcohol and opium sides with the portion of the brain which is against order. Perhaps the highest attribute of the mind is the power of voluntary control which it has over itself, by which disturbing forces are held in check, and its energies may be steadily directed to continuous train of thought or a difficult subject of endeavor. The power of the liquor is to destroy this power of voluntary control, and in so doing it tends to give increased strength in the direction in which it naturally imparts fixeness to the purposes, or persistency to the will, nor the power of rigid subjection over the passions nature. Its effects, on the contrary, are in the opposite direction. The more volatile faculties, the imagination and ideal powers, are quickened and excited, and the more solid powers, the intellect and spontaneous bursts of wit, humor, and poetry, are there are brilliant convulsions of thought, and a blaze of imaginative prophecy. But this artificial stimulus of the mind is not favorable to the calm and sober exercise of the graver faculties. As the spontaneous or automatic activity of the mind, occasioned by the stimulus, is not under the control of the mind, so its self-controlling, self-regulating power. The mind cannot serve two masters; just in proportion as it is surrendered to the influence of an external force, which invades it through the brain, it ceases to be in its own keeping. With the sparkle and effervescence of alcoholic excitement, there is a

governing of the regulating and restraining powers by which the mind manages its movements, a partial loss of this power controls the mental faculties, in which, as Dr. Carpenter remarks, "the mind is to be regarded as an *incapacitated machinery*." At the same time, the lower passions and propensities are aroused to inordinate activity. In this mental condition, these powers preponderate on the higher controlling sentiments, and from their influence results a moral equilibrium of character. The influence of Alcohol is to destroy the scale of balance, and to excite the passions, judgment and reason, and it is evident that, where these are just to hold the lower passions in subjection and maintain the mind's equipoise, the effect of the disturbing agent must be to destroy the mental balance and tell adversely upon the conduct. That, when liquor is taken in sufficient quantity to produce these effects, the mind is in some way disturbed, no observing person can doubt; at this disturbance, however trifling it may be, combined in placing the reasoning and voluntary powers in blind passions forerun in the mind's government, is proved by the fact that, if more of the stimulant be taken, the revolution becomes more complete, and the mind's equilibrium is impugned in the second.

In intoxication the action of the brain is so deeply inverted as completely to unshrine the mind; thought is confused and bewildered; self-directing power is lost; the passions are stimulated to unrestrained fury, the whole mental fabric is swamped amid the surges of delirium. Intoxication is universally admitted to be a state of temporary insanity, and is a kind of "excitement" which excites the spirits to a kind of "delirium; to elate to enthusiasm, frenzy or madness. That such is the effect of *alcoholic* poisons is shown by the fact that they are universally known as "*intoxicating liquors*." Thus the common name by which they are designated connects them in the public mind with mental constitution as a cause of frenzy, delirium and madness.

The ordinary intoxication by the use of spirituous liquors has exhausted itself, and the burning and expelled from the system. Yet mental quietude is by no means immediately regained; the billows continue to roll after the storm has passed. Exaltation and prostration follow in high-rought excitement. The intellectual powers are torpid; the temper is sour and irritable; for more of stimulus to arouse the depressed energies is almost irresistible. That the habitual or frequent use of the brain and nervous system with this fury, even though not taken to excess, is not without its influence on the healthy nutritive changes, and give rise to a more permanent form of mental disorder, it was might well be expected and what experience sadly confirms. There is a class of horrible maladies of the nervous system, involving the most melancholy perversion of mind, which are usually induced by the use of spirituous liquors. The disorder continues and greatly increases after the immediate effects of the liquor have passed away. It is the case with what is termed *Delirium Tremens*, or drunken madness, which is marked, among other symptoms, by an ungovernable and furious and violent action of the muscles, and the most violent tremblings; the mental perturbation is characterized by the most distressing anxieties and agonizing apprehension of injury and danger. The victim under the influence of frightful illusions, sleeping and waking. His passions, particularly those of fear, jealousy and anger, are in an unaccountable capacity of being excited. His aversions are equally morbid, and he will display a wild and sleepless energy of action. A common hallucination is that of being haunted by demons and demons, and of seeing snakes, spiders and worms crawling over his naked skin. The victim often has the most absurd delusions, and the victim often attempts to suicide, or kills others in fancied self-defense. *Delirium tremens* is simply the result of disordered nutrition. It may be brought on by habitual drinking, many having been attacked by it after being positively drunk. It may be a debauch, or it may be a result of want of liquor, the brain being as completely perverted as to be incapable of anything regular or exact except under the influence of the stimulant. *Dipsomania* is a kind of prostration or illness brought on by cricking, in which the individual consumed is driven to seek them by the most haunting and restless impulses, which make him reckless of all consequence.

use of Alcohol not only engenders those special ills of delirium and mania, but it is the most active ill in the summing of settled mental derangement. Dr. Clark, in enumerating the causes of insanity, mentions *the repeated intemperance* of the patient, as one of the causes, that he mentions twenty, and in the cases even fifty per cent of all the cases recorded are directly traceable to the use of Alcoholic Liquors. Intemperance to insanity, as is well known, is hereditary. Conditions of nervous weakness and brain- disease are transmissible, and so, too, is the peculiar diathesis of the nervous system. The hereditary predisposition of a family of terrible import, that the father transmits to his offspring that peculiar diseased state of the nervous mechanism which causes craving for the stimulant—he bequeaths a ready-made constitutional aptitude for the terrible poison. The habit of intemperance transmits to his children strong tendencies to insanity and idioy. In a report on idioy made by Dr. Howe to the Legislature of Massachusetts, we find the following astounding statement: The habits of the parents of three hundred of the idiots were learned, and a hundred and forty-five, or nearly one-half, are reported as known to be habitual drunkards. Such parents transmit to their children, who are consequently deficient in bodily and vital energy, and predisposed by their very organization to have cravings for alcoholic stimulants. Many of these children are feeble and live irregularly. Having a lower vitality, they feel the want of some stimulation. If they are not supplied with it, they consequently will have more temptation to follow and less power to avoid than the children of the temperate, they add to their hereditary weakness and increase the tendency to idioy in their constitutions, and this they leave to their children after them."

Thus it is that Alcohol becomes a cause of endless ill. By its influence as a material substance upon a material brain, it poisons the fountains of action, that obliquity of conduct, every form of crime, and every form of sin, and every form of natural and acquired consequences. It is the inveterate foe of the (electual and moral principle in man. In all its innumerable forms and in every quantity it is the potent adversary of mind. When alcoholic mixtures are drunk, the very first effect that we perceive is a morbidness of the system, and a morbidness of man's nature does not fail the work, but it begins it. If the quality of wheat to nourish the body; but a small amount will not completely produce this effect, it will even protect from starvation; still, the nature of wheat, and every grain of it, is to nourish and strengthen. So also with Alcohol: a small quantity will not produce such an effect as to overthrow the intellectual fabric; still, such are the essential nature of it, and every drop, it will produce such an effect as to enervate upon mind are not restricted to the employment of excessive quantities; they follow from its common use. There is much said about the inoffensiveness of wine when taken in trifling amount; but all this is little more than a self-deceiving fiction. They will not take more in infinitesimal doses. They drink them to produce a specific and positive alcoholic effect, and they use and use enough for that purpose. Whatever they say about "flavor," "aroma," "fruitsiness," "body," "nutriment," or other secondary properties of intoxicating liquors if *alcohol* be absent, it is no more *alcohol*. They are not aware that they must bear in mind, when a small portion of liquid is taken, as a case of wine and it is not mingled with the mass of blood and lost in the general system. This result forbidden by the law of local affinity. The Alcohol drawn out of the circulation into the nervous tissue, in the single dose, therefore, ceases to be insignificant. Although minute when compared with the mass of blood, the body, and the system, yet concentrated upon a single organ. In the quantity, therefore, necessary to produce free agreeable exhibiting and stimulating effect for which it is used, Alcohol so deranges the action as to violate the harmony of the mind. The feelings become excited and the temper irritable, and the individual is easily "touched" and provoked to acts of violence and crime. By cases of this kind, under other circumstances, would be needed, which under the speech thickens and the motions falter is a trifling of irascible passions which lead to the commission of numberless offences, from two-sided derangements that wound the spirit to homicidal thrusts and destroy the body.

The first kind of mental dissonance toward alcohol is the one which makes man and mankind become more and more clearly developed until man disappears and the demon takes his place. Change is one, as I have explained, that multiplies vicious and criminal capacities. It is the universal enemy of those who have had most dealings with the world. It is the enemy of judges, police, legislators, clerics, sailors, prison-wardens, and others. It is that from four-fifths to nine-tenths of all the crime committed in society is done under the influence of Alcoholic Liquors. In the extent of the mischief and the character of the crime they represent upon the human race, the products of the wine-making industry are discovered of products of art and nature. They are agents because Alcohol which, when introduced to the human system, exert a special action upon the nervous tissue and brain, and through those upon the mind. As such is Opium, which has been common to alcohol to excite the mind, but which is perhaps equally sedative and insidious, it is the important difference in its effects—Alcoholic intoxication has in it far more of violence and violent passion. An excellent man's activity

The effect of Opium, when taken into the stomach, is to stimulate but to soothe the nervous system. It may be otherwise in some instances; but these are exceptions to the general rule. The effect is more marked in the case of the opium-eater, who has acquired a habit of the use of the drug, while under the influence of the drug. He is so, not to mischievous. It is quite otherwise in the case of the opium-eater. When Bishop and his party, under the name of the "Opium-eaters," have been prepared in evidence that they prepared themselves for the task by a plentiful libation of the same course is pursued by nonbelievers and others who engage in desperate criminal undertakings. It is worthy of note in order that they might be less deleterious to the individual than gin or

the light of these views the duty of government is obvious. It is to see to it that the laws regulating hygiene are one of pure responsibility and order, and afford no scope for voluntary societies or other agencies. In acting upon individuals the considerations which should induce them to discontinue drinking, it is proper that we present the case in every way, and appeal to various motives. In stating that alcohol selects the citadel of thought as the main point of attack in the human system, or that it is the cause of insanity, is no more than to state the fact. The only fact which is liable to more or less embolism of the mind is alcohol, and it is entirely appropriate to lay stress upon the details and extent of the damage which are inflicting upon various organs of the system. But with Government it is different. It has business to pry into the minutiae of bodily constitution, and to legislate upon the minutiae of the elements of human responsibility. In respect of matters pertaining to the management of the mind, and which involve the maintenance or loss of it, men will not tolerate interference or dictation. Question, for example, how a person will manage digestive and pulmonary affairs is a concern of his, with which Government has no right to interfere. Beyond general sanitation and the protection of the body, the Government has no right of interference. If by indulging in a bad quality of diet or eating, a man chooses to inflict upon himself such or liver disease, or if he so deal with air, such or heat as to engender colds, inflammations, or complaints and rheumatism, he is responsible for his own wrongdoing and consequent molar disturbance. The evil consequences in these cases are presumed to be confined to himself; he can take his heels with his own. If in like manner, by the use of Alcohol, a man inflames and ulcerates his stomach, or degenerates his kidneys, or granulosis his liver, the matter is purely private, into which the legislature have no right of interference, and over which no law can be enacted.

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fall within the legitimate scope of legislative enactment; and, if government is not a mockery, its control over them must be absolute, and adequate to demands of the case. Indeed, to remove such obstacles to this private and public prosperity would be to remove the government from the world to be anything else, and to furnish comfortable living-places for motting demagogues; if it have other aim than to attend to the collection of money its disbursement among its own old idols; if it play anything more than a game of chance, if it employ any other means than force and prohibition, to secure the amusement and excitement of the people; if, the contrary, Government be an instrument for the fulfilment of a good beyond itself: if it be an institution endowed with full and responsible power to protect the rights and to secure the welfare of the people of the State, if it be the representative of the interests of the citizens, if policies be truly the expression of earnest-minded statesmen, who seek to see themselves manfully to the present question, to improve themselves—then does the present position, in its vital bearings, fall within the domain of legislative jurisdiction, to allow them to raise the question.

tervenient authority in this case. The legislation is driven to action by a necessity that it cannot ignore. It has no option, but *must act*. The influence of Alcohol over human conduct is an incurable ailment which Government cannot ignore deny or suppress. It is a disease which is really incurable or will not be cured but simply a matter of action it will take. It attacked to manage the subject long ago, as the policy of license bears witness. Let us see how that old worked:

The license system applies the principle of Prohibition to the mass of people. It forbids ninety-nine hundred to deal in alcoholic liquors, and leaves a hundred to the possession of the liquor which is contained in the policy of Prohibition, the bulk of the people selected many years since. Still, in the case of a Government contradicted the principle which it stood on the many. All that was offensive in governmental restrictions it inflicted upon the great majority of the citizens, and then it gave the gratification of drinking wide to a few. The result was a monopoly of the profits. But, at the same time that it distastefully affirmed the Prohibitory principle, what was the import of its action—or rather interaction—in opening the business to a small number of Government licensees in the sale of governmental concern as beverages is quite apparent. It was a concession to their right to drink. In permitting, for a consideration, the sale of these liquors, and in demanding that it assumes care be obtained—men of proper moral tone to engage in the business—governmentations the purposes for which the sale is made, and, in income, locally and morally, the habit of drinking, and, in fact, of drinking naturally lead to violate their claim to the title of *intoxicating liquors*. The use of these stimulants naturally grows upon men, and in very numerous cases it overmasters them. *Intoxicating*, therefore, in extending to the traffic in alcoholic liquors its special protection, indulges its licensees in the sale of drinking, and thus it encourages and subverts its reason. Pliny said, seventeen hundred years ago, of wine, "It is a liquor which deprives man of the use of his reason, renders him furious, and is the cause of an infinite variety of diseases. The License system hence provision for

restricted supply, to all who desire them, of substances which are characterized by such effects. If I consent to these effects, is it not, therefore, reasonable for them to be made a condition of sale?

Intermeddling through its License policy, says the Government, has done it. You want liquor to drink, we concede; you could have it for this purpose, and accordingly supply a retailer, who will furnish it. We provide means for you to supply yourself with intoxicating drinks in a legal way and of a good material. But the difference is, that the drug is sold for the purpose of exaltation, and excitement, and for no other purpose. But the Alcoholic works its natural intoxicates, and makes him furious; and in a paroxysm he takes the life of another. He is seized for murder and pleads innocence before the judge. He says: "I am quite sober, and I was not drinking at the time of the crime." The evil of the crime, the *causa proxima* of killing is not made. It must be preceded by the proved murderous intent. There is and can be no other measure of crime than criminality of purpose. I did not deliberately plan this deed, and I am not guilty. I was not drinking at the time of the transaction. I have no recollection of the violence must have been committed during the frenzy of intoxication. Alienation of mind excuses responsibility. I plead innocence on the ground of insanity. Now, what is Government to do? It is to say to the jury, "The crime is not an element of crime is wanting? or shall it acquit?" I declare the countless array of misdeeds which flow from the use of Alcohol to be uncriminal and deserving of punishment? If the latter, Where stand I? It has given its informant to the common use of Alcohol, and it is responsible for all the evil which it has done. It is the Government which must take the responsibility. It invited its prisoner at which produced the crime; if it now disclaim it must stand in his place as the guilty.

To avoid this it decides to convict, and leaves the prisoner guilty. It says to the head of the Government, "I am not guilty." You cannot escape a plea of insanity in expectation of mercy, for that condition was voluntarily brought on, could be a dangerous doctrine to excuse you on a ground, so every culprit would plan intoxication in apology for overt acts. You had no business to put under the alcohol, and you are responsible for the crime; the crime is in itself a crime, and he who does it is guilty. You cannot attempt to take advantage of his own wrong; you are to be held accountable for all acts done in that state; you see to it Intemperance has brought you in, and, after the wretch a homely upon said Babba, he has been the cause of the strange crime. You are proceeding to be dignified with the name of justice. Did not the convict procure the crime-inciter place which Government had provided to disfigure it? Did Government teach the criminality of crime when it employed and empowered "good and lawful" men to sell the liquor? Did the Government system directly provide for that crime, rare to a high sense, *legitimate*? Did Government not see, and then repudiate the fruit? By what can it extend its sanction to the opening of a shop, divide the profits with its manager, and charge the retailer the cost of the crime? Did the establishment to the use of which it was due?

I have assumed a case to make clear the principle, is hardly fiction. Such exact words may not be between judge and culprit, but instances are commonly met with. The Government is responsible and directly warrant the language. John Burnett and Son, Berenger of Scholastic left the tavern of Sol Pratt drunk. In this state Burnett killed Son Burnett, and was tried and executed on the Michael S. Burnett for the defense, said on the trial: "I was not drinking at the time of the crime." The result, said Berenger unwearied to the tribunal of his rap, deprived his wife of her chosen companion, children of their early protector, and brought his prisoner, if he be executed, to an untimely death. An unrighteous law that commissions one class of crimes and punishes another, is a law that is a while at the same time it provides prisons and penalties to punish all such offenses. I hate law, and its miserable effects have led me for years past to raise my voice in behalf of temperance. These landlords (commissioned by government are themselves responsible for the crime of the prisoners, and if hell fire burning bells were shut on might as to heaven.

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